

ZStandard (Aircompressor)

Benchmark	(block size)	(sigma)	(# blocks)	Time (ms/op)	Error (± ms/op)	Difference
Native compress	512	2	2048	13.185	0.780	
Native compress stream	512	2	2048	7.187	0.502	
Native decompress stream	512	2	2048	1.625	0.240	
Provided compress	512	2	2048	22.790	1.721	172.848%
Provided compress stream	512	2	2048	10.955	1.019	152.428%
Provided decompress stream	512	2	2048	2.975	0.209	183.077%
Native compress	4096	2	256	7.698	2.130	
Native compress stream	4096	2	256	7.118	0.398	
Native decompress stream	4096	2	256	1.605	0.302	
Provided compress	4096	2	256	13.247	1.111	172.084%
Provided compress stream	4096	2	256	10.924	0.750	153.470%
Provided decompress stream	4096	2	256	2.793	0.163	174.019%
Native compress	32768	2	32	7.111	1.734	
Native compress stream	32768	2	32	7.076	0.936	
Native decompress stream	32768	2	32	1.254	0.189	
Provided compress	32768	2	32	11.310	1.644	159.049%
Provided compress stream	32768	2	32	11.069	0.821	156.430%
Provided decompress stream	32768	2	32	2.845	0.197	226.874%
Native compress	65536	2	16	7.167	2.610	
Native compress stream	65536	2	16	6.998	0.416	
Native decompress stream	65536	2	16	0.996	0.111	
Provided compress	65536	2	16	11.122	0.450	155.183%
Provided compress stream	65536	2	16	11.070	0.539	158.188%
Provided decompress stream	65536	2	16	2.820	0.268	283.133%
Native compress	512	5	2048	5.285	0.598	
Native compress stream	512	5	2048	1.753	0.135	
Native decompress stream	512	5	2048	0.958	0.029	
Provided compress	512	5	2048	6.920	0.365	130.937%
Provided compress stream	512	5	2048	3.161	0.268	180.319%
Provided decompress stream	512	5	2048	1.715	0.104	179.019%
Native compress	4096	5	256	3.191	0.133	
Native compress stream	4096	5	256	1.721	0.110	
Native decompress stream	4096	5	256	0.942	0.088	
Provided compress	4096	5	256	5.097	0.376	159.730%
Provided compress stream	4096	5	256	3.081	0.140	179.024%
Provided decompress stream	4096	5	256	1.607	0.053	170.594%
Native compress	32768	5	32	2.415	0.105	
Native compress stream	32768	5	32	1.770	0.103	
Native decompress stream	32768	5	32	0.853	0.211	
Provided compress	32768	5	32	3.927	0.303	162.609%
Provided compress stream	32768	5	32	3.366	0.188	190.169%
Provided decompress stream	32768	5	32	1.699	0.082	199.179%
Native compress	65536	5	16	2.317	0.114	
Native compress stream	65536	5	16	1.733	0.105	
Native decompress stream	65536	5	16	0.736	0.084	
Provided compress	65536	5	16	3.680	0.672	158.826%
Provided compress stream	65536	5	16	3.333	0.188	192.325%
Provided decompress stream	65536	5	16	1.691	0.079	229.755%
# JMH version: 1.33						
# VM version: JDK 11.0.8, OpenJDK 64-Bit Server VM, 11.0.8+10-LTS						
# VM invoker: /Library/Java/JavaVirtualMachines/zulu-11.jdk/Contents/Home/bin/java						
# Blackhole mode: full + dont-inline hint (default, use -Djmh.blackhole.autoDetect=true to auto-detect)						
# Warmup: 5 iterations, 10 s each						
# Measurement: 5 iterations, 10 s each						
# Timeout: 10 min per iteration						
# Threads: 1 thread, will synchronize iterations						
# Benchmark mode: Average time, time/op						